

CLAIMS

What is claimed is:

1 1. A clutch arrangement for a motor vehicle, said arrangement
2 comprising:
3 a housing which can be filled with fluid and can be rotated about an axis;
4 at least one first friction element connected to said housing for rotation in
5 common about said axis, each said first friction element having at least one frictionally
6 active axial side; and
7 at least one second friction element connected to a power takeoff element
8 for rotation in common about said axis of rotation, each said second friction lining
9 element having at least one frictionally active axial side which can be brought into
10 frictional engagement with a respective said frictionally active side of said at least one
11 first friction element;
12 wherein one of the at least one first friction lining element and the at least
13 one second friction lining element comprises a friction lining carrier having a friction
14 lining arrangement on each said frictionally active side of said one friction element, said
15 one friction element comprising an arrangement of fluid transport surfaces which causes
16 fluid to circulate around parts of said friction elements.

1 2. A clutch arrangement as in claim 1 wherein two of said second
2 friction lining elements are interleaved between three of said first friction lining elements.

1 3. A clutch arrangement as in claim 1 wherein one of said at least one
2 first friction lining element and said at least one second friction lining element is in the
3 form of a plate having no friction lining.

1 4. A clutch arrangement as in claim 1 wherein said arrangement of
2 fluid transport surfaces comprises at least one circumferentially oriented fluid transport
3 surface provided on at least one of said friction lining carrier and said friction lining
4 arrangement.

1 5. A clutch arrangement as in claim 4 wherein said friction lining
2 arrangement comprises a plurality of friction lining segments arranged in a
3 circumferential row and having circumferentially directed surfaces, said arrangement of
4 fluid transport surfaces comprising said circumferentially directed surfaces.

1 6. A clutch arrangement as in claim 5 wherein said friction lining
2 carrier comprises a plurality of friction lining carrier segments having circumferentially
3 directed surfaces, said arrangement of fluid transport surfaces comprising said
4 circumferentially directed surfaces of said friction lining carrier.

1 7. A clutch arrangement as in claim 6 wherein each said friction lining
2 carrier segment has an outer contour, and each said friction lining segment has an outer
3 contour which conforms essentially to the outer contour of one of said friction lining
4 carrier segments.